

KITAYGORODSKIY, YU.I.

122-3-22/30

AUTHOR: Kitaygorodskiy, Yu.I., Engineer, Kogan, M.G., Candidate of Technical Sciences, and Tuzlukova, V.A., Engineer.

TITLE: Induction Heating Installation with Step-feed Floor.
(Induktsionnyy nagrevatel' s shagayushchim podom)

PERIODICAL: Vestnik Mashinostroyeniya, 1957, No.3, pp. 57 - 58
(USSR)

ABSTRACT: In induction-heating furnaces working on the heating zone principle, the blanks to be heated are fed by a pneumatic pusher. The disadvantages of this arrangement are discussed and a machine is described which has a moving floor consisting of water-cooled tubes of heat-resisting steel tubes. It lifts a set of blanks and advances them by a step before they are again deposited on the bottom of the furnace. The kinematics of the vertical and horizontal reciprocating motions is illustrated. The main power consumptions and losses are given in a table. The specific power consumption can be reduced to 0.5 kWh/kg. There are 2 figures, 1 table and 4 Slavic references.

AVAILABLE: Library of Congress
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KITAYGORODSKIY Yu. I.

24-1-23/26

AUTHORS: Yerokhin, A.A., Kitaygorodskiy, Yu. I., Kogan, M. G.,
and Silin, L. L. (Moscow).

TITLE: On the effect of ultrasonics on the character of
crystallisation inside a weld pool. (O vozdeystvii
kolebaniy ul'trazvukovoy chastoty na kharakter
kristallizatsii svarochnoy vannoy).

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh
Nauk, 1958, No.1, pp. 140-142 (USSR).

ABSTRACT: The results are described of some tests carried out
by the Institute of Metallurgy, Ac.Sc. USSR (Institut
Metallurgii AN SSSR) and the Scientific Research
Technological Institute (Nauchno-Issledovatel'skiy
Tekhnologicheskii Institut) on the effects of ultra-
sonics on the character of crystallisation of the metal
under welding conditions, paying particular attention to
welding of scale resistant austenitic steels for which
the problem of improving the structure is of particular
interest in view of their pronounced tendency to trans-
crystallisation. Typical welding equipment and standard
welding regimes were used. Automatic welding was
effected under flux, argon arc welding was effected by
means of a tungsten electrode of 5 mm dia. using as

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metal
addition/4 mm wire of the alloy 3M-334. The oscillations in the metal were generated by means of a magnetostriction element which was rigidly connected to the transducer. The natural frequency of the mechanical system in the no-load state equalled 19.5 kc/sec, which varied as a function of the temperature of the metal, the dimensions of the bath and other factors, by 0.5 to 1.5 kc/sec when the bath was filled. The amplitude was about 35 μ . Preliminary calculations showed that such an amplitude ensures a kinetic energy which is adequate for influencing effectively the crystallisation of the weld joint. The power consumed by the transducer is 2 to 2.5 kW. Two methods of generating the oscillations are compared; in one the oscillations were transmitted to the bath through the base metal (Fig.1a), whilst in the other the oscillations were produced in the weld pool itself by means of direct submersion of the tip of the oscillating element into the molten pool. The second mentioned method proved more favourable. The carried out experiments proved the possibility of utilisation of ultrasonics for

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On the effect of ultrasonics on the character of crystallisation
inside a weld pool.

controlling the processes of crystallisation of the metal
of the seam during fusion welding.

There are 4 figures and 3 references - 1 Russian,
1 English, 1 German.

SUBMITTED: October 5, 1957.

AVAILABLE: Library of Congress.

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KITAYGORODSKIY, Yu. I., inzh; KOGAN, M. G., kand. tekhn. nauk (Moskva).

Generator for energizing large magnetostrictive transducers. Elektrichestvo no. 2167-69 Y '58. (MIRA 11:2)
(Transducers)

SOV/122-58-7-13/21

AUTHORS: ~~Kitaygerodskiy, Yu. I.~~ Engineer and Kogan, M.G., Candidate of Technical Sciences

TITLE: The Modernisation of High-frequency Tube Oscillators (Modernizatsiya lampovykh ustanovok T.V.Ch)

PERIODICAL: Vestnik Mashinostroyeniya, 1958, Nr 7, pp 42-44 (USSR)

ABSTRACT: Modernisation schemes for existing high-frequency generators have been developed and practically tested by Nauchno-issledovatel'skiy tekhnologicheskii institut (Scientific Production Research Institute). Modernised condenser batteries for the oscillator circuit can be carried out in two variants. A 7 000 μF battery consists of 14 ceramic high-frequency condensers, KVKG-3, of 1 000 μF each, parallel-series connected, and cooled by natural convection of air. In the second variant, 15 000 μF are assembled in 14 condensers of 2 200 μF each. Measures against radio interference involving filters and screening have not always been effective and the reduction in the basic frequency of the installation to 130 kc/s is recommended. Voltage stabilisers of the electronic-thyratron type and of the auto-transformer type (SAN-3 or ST-80) have been compared. In the former, mercury type thyratrons were replaced by

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gas-filled units (TG1-2.5/10) with a wider range of operating temperatures. The ST-80 stabiliser is recommended when the heating circuit is not stabilised. An excitation voltage regulator has been developed to accomplish a smooth variation in operation of the grid supply. The upper terminal of the oscillating circuit coil is connected to the valve grids, the lower terminal to the anodes. The cathode (the neutral point of the circuit) is connected to sliding contacts moving along the coils of the grid connection. Thus, in regulating the anode voltage, the neutral point of the coil changes its position. Figure 3 shows an installation for exciting and interrupting the oscillations, developed to replace the older device which incorporated special rectifiers of inadequate reliability. Oscillations are interrupted by blocking the valve. The voltage shift required is picked off a voltage divider connected in the anode supply circuit. The control is accomplished by magnetic starters which short-circuit one of the resistances in the voltage divider. In a new water-cooling installation, the older rubber hoses have been replaced by porcelain tubes of 8 mm i.d., 2 mm wall thickness and 500 mm length. Since

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electrolytic action is inevitable, replaceable copper tubes are connected in the water circuit, which have the anode potential. Electrolytic action concentrates on the copper tubes.

There are 3 figures.

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SOV/24-58-8-14/37

AUTHORS: ~~Kitaygorodskiy~~, Yu. I., Kogan, M. G., Kuznetsova, V. A.,
Rykalin, N. N. and Silin, L. L. (Moscow)

TITLE: Joining Metals in the Solid State by subjecting
them to the Effects of Ultrasonics (Soyedineniye
metallov v tverdom sostoyanii pri vozdeystvii
ul'trazvukovykh kolebaniy)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Otdeleniye Tekhnicheskikh
Nauk, 1958, Nr 8, pp 88-90 (USSR)

ABSTRACT: During 1957 and 1958 methods of obtaining spot and seam
joints of various metals under the effect of ultrasonics
were tried out at the Institute of Metallurgy, Ac.Sc., USSR.
It was established that the quality of the obtained joints
depends on two groups of inter-related factors. The first
group of factors depends on the physical properties of the
metals (mainly hardness and ductility), the state of the
surface (presence of oxide and adsorption films, height
of micro non-uniformities) and the thickness of the joined
components. The second group of factors depends on the
regimes of the apparatus (oscillation amplitude of the
tool, effect duration, the magnitude of the contact force),
the geometry and the properties of the contact surface of

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Joining Metals in the Solid State by Subjecting them
to the Effects of Ultrasonics

the used tool. By means of ultrasonics joints of various metals and alloys were produced, e.g. copper, aluminium, 0.1 to 1.5 mm thick duraluminium and 0.2 to 0.7 mm thick standard steels. The possibility of obtaining joints depends only on the thickness of that component which is located at the side of contact with the excitor of the ultrasonics; the thickness of the other component is of no consequence. Preliminary preparation of the joined surfaces usually consists of degreasing by means of solvents (e.g. methanol). The electric power consumed by the magnetostriction transducer is between the limits of 0.7 and 2.5 kW, the ultrasonics frequency is 18 to 25 kc/sec, the amplitude of the front face of the tool is 10 to 40 μ . The duration of the effect of the ultrasonics in the case of a spot joint varied between 0.5 and 4.0 sec, the contact pressure being 10 to 100 kg, which is considerably less than the force required for cold welding by applying pressure. The optimum value of each of the parameters involved in the formation of a joint was determined by

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maintaining constant the values of the other parameters involved. For instance, using a contact end piece of 8 mm², the optimum values of the time of applying elastic oscillations and the contact pressure were 1.5 sec and 30 kg respectively for aluminium sheet. In Fig.1 the dependence on the duration of the ultrasonics and on the contact force is graphed of the shear strength of a spot joint of a 0.5 mm thick aluminium sheet. In shear tests of such joints, the failure occurred in the base metal and not in the joint. Reduction of the duration of the ultrasonics and reduction of the contact force bring about at first only a slight reduction in the strength without reducing the zone of the actual joint. However, further reduction of these values brings about a decrease in the joint area and consequently also a decrease in the shear strength. For instance, for an ultrasonics duration of 0.5 sec and a contact force of 10 kg, the failure will occur at the contact surface; under such a regime a joint will form only in individual insignificant sections of the area. An increase of the

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effect duration to 2 secs will also bring about a decrease in the strength. This is obviously associated with the longer duration of the ultrasonics which brings about an appreciable disruption of the surface layers, weakening the joints and tearing out the spot from the base metal. Tensile tests of good quality joints have shown that their strength is satisfactory, amounting to 30-35% of the shear strength. For usually applied contact forces, durations and amplitudes of the elastic oscillations, the relative deformation of the surface layers does not exceed 5%. A considerable deformation is observed only directly in the region of the joint. As an example, Fig.2 shows micro-photographs of the zones of joints of copper sheets for oscillation amplitudes of 50 μ , a contact force of 50 kg and an application time of 1.6 sec; the reproduced micro-photographs show that in the zone of the joint the deformation of the metal is very complex. Usually two main types of joint structure are observed: a peculiar vortex structure (Fig.2, top) with a mutual penetration of both of the components to be

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joined and sections with a continuous transition from one component to the other (Fig.2, centre). The thickness of the vortex structure zone reaches 0.4 mm and apparently is located at sections of the initial contact of the components to be joined. The structure of the second type occupies the larger area of the joint extending to a thickness of 0.1 to 0.15 mm and represents a zone with an almost uniform fine grain structure, whereby in the individual sections which are located in the middle of the joint it was not possible to detect a crystalline structure of the metal even if large amplifications are used (Fig.2, bottom). Micro investigations of the joint zone does not reveal an appreciable thermal effect on the structure of the metals. Micro investigations of the joint after annealing for ten minutes at 600°C revealed differing grain sizes in the base metal and in the joint zone (Fig.3). There is reason to assume that the particles of surface oxides and of adsorbed films which penetrate into the metal prevent to a certain extent selective recrystallisation, which leads

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**Joining Metals in the Solid State by subjecting them
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to the formation of a fine grain structure at the location of the joint. The method of joining metals in the solid state by means of ultrasonics is applicable not only to the here mentioned materials. At present investigations are being carried out relating to the conditions of formation of joints for a wider group of metals and alloys and the apparatus to be used for such work is being developed.

There are three figures.

(Note: This is a complete translation)

SUBMITTED: April 4, 1958

1. Metals--Bonding
2. Metals--Properties
3. Ultrasonic radiation--Performance
4. Ultrasonic radiation--Metallurgical effects
5. Ultrasonic projectors--Performance

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KITAYGORODSKIY, Yu.I., inzh.; KOGAN, M.G., kand. tekhn. nauk; BELOUSOV, N.A.,
inzh.

Using high-frequency electron-tube oscillators in exciting powerful
ultrasonic oscillations. Vest. mash. 38 no.3:33-34 Mr '58.
(Oscillators, Electron-tube) (Ultrasonic waves) (MIRA 11:2)

KITAYGORODSKIY, Yu.I., inzh.; KOZAN, M.G., kand.tekhn.nauk

Modernising installations having r-f current tubes. Vest.mash.
38 no.7:42-44 J1 '58. (MIRA 11:8)
(Electronic apparatus and appliances)

PHASE I BOOK EXPLOITATION 507/3538

Notes. See summary-technical survey

Primeneniye ultrazvuk v promyshlennosti; shchitki statyi (Doklady i nauchnye trudy). Collection of articles. Moscow, Mashin. 1979. Vol. 9. 8,000 copies printed.

Spetsializatsionnyy otdel po razrabotke i proizvodstvu polivestnikov i materialov dlya izobrazheniya.

26. (Title page): V.P. Budyak, Doctor of Physical and Mathematical Sciences, Professor, M.I. (Institute name); G.P. Koshcheyev, Engineer, M.I. (Institute name); V.P. Budyak, Managing Director, Literature on Machinery and Instrument Manufacturing (Mashin. I.); N.V. Polubnyak, Engineer, M.I. (Institute name).

Summary: This book is intended for engineers and technicians engaged in the application of ultrasonics in machinery manufacture and in other branches of industry.

Contents: This is a collection of papers read at the first all-Union conference on the use of ultrasonics in industry. Attention is focused mainly on the description of ultrasonic equipment and the use of ultrasonics in the detection of hard materials and for flaw detection. The effect of ultrasonics on metal crystallization processes is also discussed. No patentability are mentioned.

References: 10 papers.

Keywords: Ultrasonics; Industry; Engineering; Design; Equipment; Materials; Technical Sciences; Machinery; Manufacturing; Instrumentation; Measurement; Detection; Flaw Detection; Crystallization; Metal Processing; Industry; Engineering; Design; Equipment; Materials; Technical Sciences; Machinery; Manufacturing; Instrumentation; Measurement; Detection; Flaw Detection; Crystallization; Metal Processing; Industry; Engineering; Design; Equipment; Materials; Technical Sciences; Machinery; Manufacturing; Instrumentation; Measurement; Detection; Flaw Detection; Crystallization; Metal Processing.

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28(4)

AUTHORS:

SOV/32-25-4-40/71

Kitaygorodskiy, Yu. I., Bogin, V. S., Vitkovskiy, A. V.

TITLE:

Ultrasonic Generator for Laboratory Tests (Ul'trazvukovoy generator dlya laboratornykh issledovaniy)

PERIODICAL:

Zavodskaya Laboratoriya, 1959, Vol 25, Nr 4, pp 477-478 (USSR)

ABSTRACT:

A generator UZG-3 was designed for laboratory tests in the field of industrial application of ultrasonics. The generator is calculated for an efficiency of 3 kw and a consumption capacity of 5 kw (supply with 220 v single-phase line current). It works in a frequency range of from 3 to 300 cycles continuously or in pulses. The pulses can be regulated in the range of from 30 to 1000 μ sec, and the repetition frequency from 20 to 10000 cycles. A diagram of the generator is given (Figure) which shows that the individual parts - the generator, the voltage amplifier, the pulse modulator, the capacity amplifier and adjustable magnetizing rectifiers - are supplied separately. The description of the device says, among other things, that the above-mentioned capacity amplifier serves as an output circuit of the generator UZG-3 which is composed of a push-pull circuit with the tubes 6U-80. The generator is used in investigations of different technological processes with an action of

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Ultrasonic Generator for Laboratory Tests

oscillations of ultrasonic frequency, such as in purifications, mechanical treatment of hard and brittle materials, metal crystallisations, etc. There is 1 figure.

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KITAYGORODSKIY, Yu.I.

"The present State and Trend of Development of the Technological
Application of Ultrasonics in Mechanical Engineering."

report presented at the All-Union Scientific-Engineering Conference on the
Application of Ultrasonics in Industry, Moscow, 22-26 November 1960.

24,1800

S/194/62/000/005/080/157
D222/D309

AUTHOR: Kitaygorodskiy, Yu.I.

TITLE: Industrial ultrasound generators and transducers

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika,
no. 5, 1962, abstract 5-5-34 ch (V sb. Primeneniye
ul'trazvuka v tekhnol. mashinostr. no. 2, M., 1960,
3 - 14)

TEXT: The circuit diagrams and constructional design of the $\gamma 3P$ (UZG) series of ultrasound generators of 2.5, 5, 10, and 20 kW output power are described. The results of investigating various magnetostrictive transducers are given. The efficiency of the $\Pi MC-6$ (PMS-6) transducer, of transducers made of the alloys K49 $\phi 2$ (K49 P2). $\phi 14$ (Yu14), and also the dependence of the specific power of different kinds of transducers on the induction were investigated. The electrical characteristics of different transducers and their geometrical dimensions are also given. [Abstractor's note: Complete translation].

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3/525/62/000/007/007/016
A004/A101

1.195.

AUTHORS:

Kaluzhinova, I. S., Kitaygorodskiy, Yu. I.

TITLE:

Investigating the factors affecting ultrasonic cleaning processes

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 7, 1962, 31, abstract
7B168 (V sb. "Primeneniye ul'trazvuka v tekhnol. mashinostr.", no.2,
Moscow, 1960, 75-83)

TEXT:

The authors present the results of investigating the dependence of ultrasonic cleaning duration on the distance of the specimens from the emitting surface of standard ПМС (PMS) converters. The tests were carried out in the УЗВ-2 (UZV-2) baths supplied by a УЗГ-10 (UZG-10) generator on flat ground specimens of stainless 1X18H9T (1X18H9T) grade steel, 100 x 100 mm and 100 mm in diameter, having a thickness of 0.8, 3 and 5 mm. The degreasing solution had the composition (g/l): sodiumtripphosphate, calcined soda - 3 and ОП-10 (OP-10) - 3 at 45 - 50°C. It was found that the duration of cleaning grows with the distance of the specimen from the surface up to a certain magnitude (at a distance of 80 - 90 mm and more, the cleaning time remained practically unchanged). The lower the oscillation intensity of the converter (being determined by the

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applied voltage) the shorter the distance in whose limits the position of the specimen affects the cleaning time. Increasing the specimen thickness up to 5 mm and reducing the voltage from 520 to 110 v noticeably affects the degreasing duration only if the part is placed in immediate proximity to the converter. At a short distance of the specimen from the converter surface, the cleaning duration of the specimen lower surface is considerably shorter than that of the upper one. If the specimen is removed from the bath bottom, the cleaning time of the upper and lower surfaces almost did not change. Flat plates of 30 x 80 mm were used for the cleaning from slime, the plates being cut out from 1Kh18N8T sheet steel of 0.8, 2 and 2.5 mm thickness with scale after heat treatment (water-quenching at 1,050 - 1,100°C). The scale was preliminarily pickled with-out ultrasonics in a solution with 100 - 120 ml/l nitric acid (density - 1.35) and 45 g/l sodium fluoride at 40 - 45°C. The specimens of 0.8 mm thickness were pickled for 10 min, those of 2 mm thickness for 15 min, and the 2.5 mm specimens were pickled for 35 min. The slime was removed immediately after holding in the pickling solution. All tests for removing the slime were carried out with slight swinging of the specimens. Tests were also carried out for cleaning blind holes 1 - 5 mm in diameter and 30 - 35 mm deep on aluminum-alloy parts of intricate configuration with the dimensions 400 x 300 x 50 and 400 x 330 x 40 mm,

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with projecting parts up to 120 - 130 mm high. Cleaning was effected in a solution containing sodiumtriphosphate, calcined soda and OP-10 by 3 g/l each at 50°C and in "Galosha" gasoline at 20 - 30°C using ultrasonics. The authors report on the cleaning of deep through channels in large-size parts of 500 x 300 x 200 mm, the channel diameter being 100 mm and the depth 200 mm. The parts were cleaned in an ultrasonic bath and in a 30 g/l sodiumtriphosphate solution to which 3 g/l OP-10 were added at 50°C. Cleaning of the parts in the ultrasonic bath proved to be inefficient. An analysis of the obtained results revealed that for an efficient cleaning of the outer surfaces of parts, they have to be placed as near as possible to the converter surface. For cleaning the outer surfaces of voluminous parts, they have to be revolved in the ultrasonic bath, or baths have to be used in which converters are not only placed on the bottom, but also on the side walls. A swinging of the specimens during the treatment increases the homogeneity of cleaning over its entire surfaces. The most efficient method of transmitting ultrasonic oscillations during the cleaning of deep channels in solid thick-walled parts is to introduce the tool in the aperture. Investigations of the effect of ultrasonics on the acceleration of the pickling process, which were carried out on specimens and parts from 1Kh18N9T and CH 2 20 (SN2 20) steel and OT 4 and BT 1 (VT 1) titanium alloys in the form of flat

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A004/A101

plates and nipples, showed that ultrasonic waves accelerate the pickling process by a factor of 2 - 3, and also promote the removal of secondary pickling products (slime) from the metal surface, moreover, the surface finish of the treated metal is improved. It is pointed out that, in solving the problem of expediency of using ultrasonics in the pickling process it is necessary to take into account that an acceleration of the process by a factor of 2 - 3 is an insufficient characteristic of the efficiency of using ultrasonics. Its application is necessary for improving the surface finish and the quality of the parts.

[Abstracter's note: Complete translation]

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S/137/62/000/004/181/201
A154/A101

AUTHORS: Olizburg, I.L., Kitaygorodskiy, Yu.I., Krasnov, I.I.,
Radzeyevskaya, Ye.V., Sysolin, O.V.

TITLE: Ultrasonic welders

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 4, 1962, 71, abstract
4B398 (Sb. "Primeneniye ul'trazvuka v tekhnol. mashinostr."
no. 2, M., 1960, 162 - 170)

TEXT: A detailed examination was made of the design of the following
ultrasonic welders: the Y3CM-1 (UZSM-1) for spot-welding sheet metal; the
Y3CA-3 (UZSA-3) for welding sheet parts in structures with large planes or
profiled surfaces; the Y3CA-4 (UZSA-4) for spot-welding sheet parts in large
items; the Y3CM-2 (UZSM-2) for seam-welding sheet metal. The technical charac-
teristics of each welder are given.

V. Tarisova

[Abstracter's note: Complete translation]

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KITAYGORODSKIY, Yu. I.

"Economy of the ultrasonic apparatus."

report presented at the Intl Symp on Ultrasonics Application, Bratislava, C86R, 6-12
Sep 62.

L 57536-65 EWT(m)/EWP(w)/EPP(c)/EPT(n)-2/EWA(d)/T/EWP(t)/EWP(z)/EWP(b)/
 EWA(h)/EWA(c) Pad/Peb/Pu-L IJP(c) MJW/JJ, JW/JJ/WB
 ACCESSION NR: AR5015182 UR/0137/65/000/005/1037/1037

SOURCE: Ref. zh. Metallurgiya, Abs. 51235

AUTHOR: Agranat, B. A.; Baghkirov, V. I.; Kitaygorodskiy, Yu. I.

1. Cavitation failure of metals and alloys in an ultrasonic field.

CITED SOURCE: Sb. Primeneniye ul'trazvuka v mashinostr. Minsk. Nauka i tekhnika, 1964, 89-93

TOPIC TAGS: tantalum, rhenium, cobalt, molybdenum, chromium, columbium, steel, cavitation resistance, corrosion resistance, water, sulfuric acid, ultrasonic field/ Kh18N9T steel, BRAZh

TRANSLATION: An experimental study was made of the corrosion-cavitation resistance of a number of metals and alloys (tantalum, rhenium, cobalt, molybdenum, BRAZh Mts-10-3-1.5, Kh18N9T steel, chromium, columbium). The preliminary tests were carried out in a 20% solution of H_2SO_4 at a pressure of 5 atm and at an amplitude of sound pressure approximately equal to 5 atm (to intensify cavitation failure by the accelerated impact of cavitation bubbles). Among the materials investigated, BRAZh had the greatest resistance. A

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ACCESSION NR: AR5015182

metallographic analysis ^{to} is given. V. Geminov.

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L-10555-66 EWT(1)/EWT(M)/EWA(d)/T/EWT(t)/EWT(x)/EWT(z)/EWT(b)/EWA(h) KJW/JD
ACC NR: AR5018643 SOURCE CODE: UR/0275/65/000/007/V009/V010

SOURCE: Ref. zh. Elektronika i yeye primeneniye. Svodnyy tom, Abs. 7V73

AUTHOR: Agranat, B. A.; Bashkirov, V. I.; Kitaygorodskiy, Yu. I.

TITLE: Cavitation damage to metals and alloys in ultrasonic fields

CITED SOURCE: Sb. Primeneniye ul'trasvuka v mashinostr. Minsk, Nauka i tekhnika, 1964, 89-93

TOPIC TAGS: ultrasonics, metal test, corrosion resistance, metal surface, fabricated structural metal, ultrasonic field, ultrasonic effect, bronze, metal

TRANSLATION: Metals having higher cavitation and corrosion resistance were investigated as materials for building radiators and entrances in the ultrasonic-etching baths for transformer steel. First, the cavitation resistance in water was determined, and then the best metals were tested in a 20% H₂SO₄ at a pressure of 5 atm, in an enclosed chamber, with an ultrasonic pressure amplitude of 3 atm.

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ACC NR: AR5018643

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In the latter case, the process was much intensified due to a higher speed of closing the bubbles during the compression half-cycle, which resulted in speedy destruction of the metals. Corrosion resistance of 50x70x8 radiators soldered to a magnetostriction packet was tested in a 20% H_2SO_4 , at 60C, with an ultrasonic application of 7 hours a day. The results were: Ta, 16 hours; Ti, 14 hours; Mo, 52 hours. The best results were obtained with the BrAZhMTs-10-3-1,5 bronze (150 hours); this bronze has been selected for producing industrial prototypes of converters having a uniform ultrasonic field and intended for etching work in metallurgical plants.

SUB CODE: 11, 20, 13

Cord 2/2 pu

KITAYNIK, A.

It is good to be a businessman. Grashd. av. no.3:22-23 Mr '61.
(MIRA 14:3)
(Novosibirsk--Aeronautics, Commercial)

GLEMBOTSKIY, Ya.L., kand. sel'khoz. nauk, otv. red.; KITAYNIK, A.U.,
red.

[Judging and selecting herd rams of the Altai fine-wool
breed] Otsenka i otbor proizvoditelei Altaiskoi tonkorunnoi
porody. Novosibirsk, Nauka, 1965. 158 p. (MIRA 19:1)

1. Akademiya nauk SSSR. Sibirskoye otdeleniye.

KITAYNIK, ABRAHAM, USHEROVICH.

SHEPELEV, Aleksandr Grigor'yevich, ASHCHEPKOV, Yevgeniy Andreyevich;
KOZHEVNIKOV, Savva Yelizarovich; NEMIRA, Kirill L'vovich; KITAYNIK,
Abram Usherovich; SINAGOV, V.E., red.; MAZUROVA, A.P., tekhn.red.

[With our friends; impressions of Siberians visiting people's
democracies] U Nashikh druzel; vpechatleniia sibiriaikov, pobyvavshikh
v stranakh narodnoi demokratii. [Novosibirsk] Novosibirskoe knizhnoe
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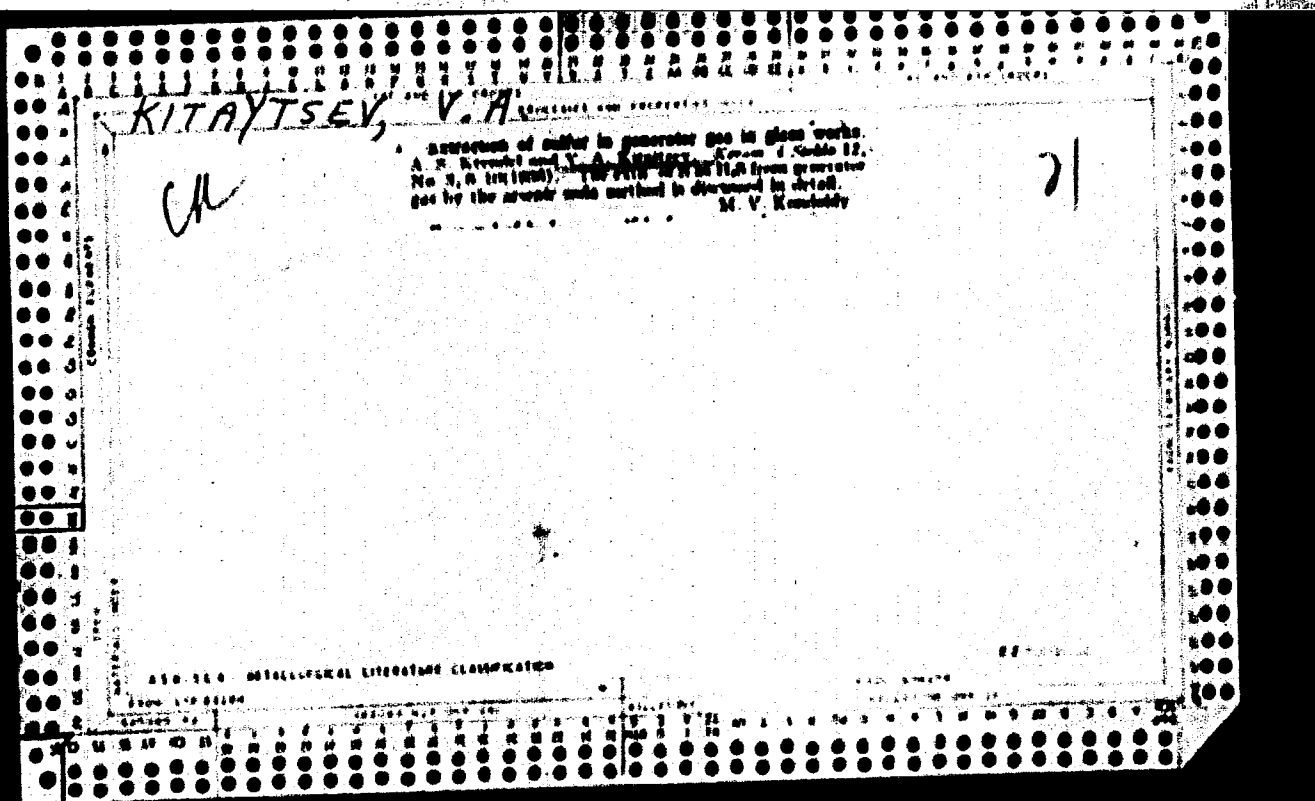
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raboty, provedenie i kreplenie gornyykh vyrabotok. By S.P. Anan'ev i
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[Summaries of reports delivered at the Fifth All-Union Conference
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SSR, 1960. 125 p. (MIRA 14;2)

1. Vsesoyuznaya konferentsiya po teorii funktsiy, 5th.
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32754. BLAGODETEL'NAYA, V. A. i KITCHENKO, A. V. Kharakteristika difteriynykh palochyek, vydelenykh v 1945-46 gg. v khar'kove. Soobshch. w. Trudy ukr. In-ta spidemiologii i mikrobiologii im. Mechnikova, T. XVI, vyp. 1, 1949, s. 129-36

80: Letopis' Zhurnal'nykh Statey, Vol. 44, Moskva, 1949

PALANT, B.L.; BLAGODETNELVA, V.A.; KITCHENKO, A.V.; OLEYNIKOVA, Ye.A.

Effect of sleep induced by drugs upon the development of certain infections. Zhur.mikrobiol.epid.i immun. no.3:89 Nr '54. (MLRA 7:4)

1. In Khar'kovskogo instituta epidemiologii i mikrobiologii im. Mechnikova i kafedry mikrobiologii Khar'kovskogo instituta usovershenstvovaniya vrachey. (Sleep) (Infection)

ALPHABETICALLY

USSR/Medicine - Pharmacology; Central nervous system and infection

FD-2312

Card 1/1 Pub 148 - 13/36

Author : Gres'-Edel'man, B. Ye.; Zhuk, A. S.; Kitchenko, A. V.

Title : The effects of processes of excitation and inhibition of the central nervous system on the course of experimental streptococci infections

Periodical : Zhur. mikro. epid. i immun. No 2, 38-39, Feb 1955

Abstract : On the basis of the experimental results described, arrive at the following conclusions: white mice (highly susceptible to infection with hemolytic streptococci) are protected by caffeine from death on infection in a considerable percentage of cases, not protected by urethan (death expedited), and not protected by medinal (died at the same time as control animals); while guinea pigs relatively insusceptible to infection) are made more susceptible by caffeine and protected by urethan.

Institution : Khar'kov Institute of Vaccines and Sera imeni Mechnikov; Chair of Microbiology, Ukrainian Institute of Advanced Training for Physicians

Submitted : July 15, 1954

USSR / Microbiology. Microorganisms Pathogenic to Humans
and Animals.

F-3

Abs Jour : Ref Zhur - Biol., No 8, 1958, No 33824

Author : Shchit, O. R., Kitchenko, A. V.

Inst : Not given

Title : Characteristics of Intestinal Bacilli Isolated from Dysentery Patients and Healthy Individuals. Report 2. Morphological, Cultural, Fermentative, and Serological Properties of Intestinal Bacilli Parastrains Isolated from Dysentery Patients and from Healthy Individuals.

Orig Pub : Sb. rabot po dizenterii, Kharkov, 1956, 13-16.

Abstract : Intestinal bacilli parastrains yielding a positive reaction of agglutination with Flexner serum type "c" were isolated from patients in whom the dysentery stimulant was not found on feces examination. Strains agglutinated by Flexner serum in high dilutions were virulent to mice. In a portion of

Card 1/2

USSR/Microbiology. Microbes Pathogenic for Man and
Animals

F

Abs Jour : Ref Zhur-Biol., No 13, 1958, 57663

Author : Kitchenko A. V.

Inst : Not given

Title : Characteristic of Coli Bacilli Isolated from
Dysenteric patients and healthy persons. Report
3. Characteristic of Parastrains of the Coli Ba-
cillus Isolated from Patients Ill with Dysentery,
After Passing Through the Organism of White Mice

Orig Pub : Sb. rabot po dizenterii, Kharkov, 1956, 17-25

Abstract : The results of the passing of two strains of the
coli bacillus, isolated from patients ill with
dysentery of an unconfirmed diagnosis, through
the organism of white mice are reported. Both
strains were found to be virulent for mice and to
possess antigens common with the Flexner's type
O dysentery bacillus.

Card 1/1

SKORIKOV, P.A.; KITCHENKO, G.A., master

Organization of material and technical procurement and work
of the order bureau in the locomotive depot in Krasnodar.
Elek. i tepl. tiaga 9 no.11:6-8 N '65.

(MIRA 19:1)

1. Lokomotivnoye depo Krasnodar.

EXCERPTA MEDICA Sec. 17 Vol. 3/11 Public Health Nov. 57

3326. KITCHENKO M.G. - The effective sanitary value of different variants of water-isolated coli organisms (Russian text)
2. MIKROBIOL. 1957, 1 (53-71) Graphs 4

The sanitary significance of various types of coli organisms was investigated, especially its dependence on their biochemical activity, the ability to ferment sugars, the proteolytical ability, the creation of H_2S and their ability to agglutinate. On the basis of experiments made it was found out that the whole group of coliform bacteria can be used as indicators of faecal pollution of water. Three characteristics are decisive for the determination of their faecal origin: (1) the resistance against certain concentrations of rosolic acid (aurine) in the medium, (2) the ability to ferment glucose at $43^\circ C.$ and lactose at $37^\circ C.$, (3) the polymorphous rods are Gram-negative.

Symon - Prague (XVII, 4°)

AUTHOR: Kitchenko, N.A., Mining Engineer SOV-127-58-8-17/27
TITLE: Delivery of Props into the Pits by Pipe (Transportirovka krepeshnogo lesa v shakhtu po trubam)
PERIODICAL: Gornyy zhurnal, 1958, Nr 8, p 68 (USSR)
ABSTRACT: The author describes the delivery of mine props into the pits through the pipes installed in vertical shafts in East Germany. There is 1 diagram.
1. Mines--Equipment 2. Pipes--Applications 3. Mining engineering

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KITCHENKO, N.A.

Device for sliding timbering into the "Novaya" Mine of the
Rosa Luxemburg Mining Enterprise. Kolyma 21 no.2:7-8 P '59.
(MIRA 12:7)

1. Nauchno-issledovatel'skiy gornorudnyy institut.
(Krivoy Rog--Mine timbering)

G. KITCHINGHAM

" An Outline of French Forestry Literature. p. 98" (SUMARSKI LIST, Vo. 77,
No. 2, Feb. 1953, Zagreb, Yugoslavia)

SO: Monthly List of East European Accessions, L.C., Vol. 2, No. 11,
Nov. 1953, Uncl.

KITSLADZ, Ye.S.; KPSHTEYN, F.G.; ALEKSEYEVA, A.A.; SOROKINA, Ye.Yu.;
KHAZAEVA, L.D.; LOZHKINA, A.N.; ZAKSTEL'SKAYA, L.Ya.; KHARAKHASH'YAN,
K.T.

Clinical and virological study of influenza during the 1959 winter
outbreak. Vop. virus. 6 no.5:629-630 '61. (MIRA 14:1)

1. Institut virusologii imeni D.I.Iyanovskogo AMN SSSR, Moskva.
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On the continuity of kinematic links when switching transmissions
by central control mechanisms. Stan.i instr. 26 no.9:5-10 8 '55.
(Machinery, Kinematics of)

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Reducing the thickness of the body and connecting-pipes of scrubbers.
Suggested by L.A. Kitenko. Rats. predl. no. 44:9 '59.

(Scrubber (Chemical technology)) (MIRA 14:1)

KITENKO, V. A.

PA-23742

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"Description of Fine Boilers," V. A. Kitenko, 1967

"In Ekonomiya Topliva" Vol. IV, No 9

The author gives a very general description of boilers
listing of fine boilers and states that he is unable
to give any more definite ideas because of the fac-
tors involved: type of boiler, type of fuel and how
it is burned, quality of the water used in the boiler,
the operation of existing fine boilers and the
construction of these fine boilers.

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KITENKO, V.S.

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KULAGIN, S.M.; KUCHERENKO, V.D.; *KITENKO, V.S.*

Andrei Iakovlevich Alymov, d.1965; obituary. Zhur. mikrobiol.,
epid. i immun. 42 no.8:156-157 Ag '65. (MIRA 18:9)